



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 25A, AC COIL 60HZ, 460VAC, 1NC AUXILIARY CONTACT



Product designation Power contactor Product type designation BF25 Contact characteristics Nr. 3 Number of poles Rated insulation voltage Ui IEC/EN ٧ 690 k۷ Rated impulse withstand voltage Uimp 6 Operational frequency Нъ 25 min Hz 400 max IEC Conventional free air thermal current Ith 32 Α Operational current le AC-1 (≤40°C) Α 32 AC-1 (≤55°C) Α 26 AC-1 (≤70°C) Α 23 AC-3 (≤440V ≤55°C) Α 25 AC-4 (400V) 10 Rated operational power AC-3 (T≤55°C) 7 230V kW 400V kW 12.5 415V kW 13.4 440V kW 13.4 500V kW 15 690V kW 11 Rated operational power AC-1 (T≤40°C) 230V kW 12 400V kW 21 500V kW 26 690V kW 36 IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series ≤24V Α 20 48V Α 18 75V Α 18 110V Α 6 220V Α IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series ≤24V Α 23 48V Α 23 75V 23 Α 110V Α 16 220V Α 1 IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series ≤24V 23 Α 23 48V Α 75V Α 23 110V 18





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	220V	Α	12
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	≤24V	Α	_
	48V	Α	_
	75V	Α	_
	110V	Α	_
	220V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	≤24V	Α	15
	48V	Α	13
	75V	Α	13
	110V	Α	2
	220V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
·	≤24V	Α	18
	48V	Α	18
	75V	Α	16
	110V	Α	10
	220V	A	2
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			_
	≤24V	Α	22
	48V	Α	22
	75V	Α	18
	110V	A	15
	220V	Α	8
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	220 V		
120 max out one to in 200 200 with 2/10 = 10mb with 4 poles in series	≤24V	Α	_
	48V	A	_
	75V	A	_
	110V	A	_
	220V	A	_
Short-time allowable current for 10s (IEC/EN60947-1)	220 V	A	200
Protection fuse			200
1 100000011 1000	gG (IEC)	Α	50
	aM (IEC)	A	25
Making capacity (RMS value)	aw (IZO)	A	250
Breaking capacity at voltage			200
	440V	Α	200
	500V	A	184
	690V	Α	102
Resistance per pole (average value)	300 v	mΩ	2.5
Power dissipation per pole (average value)		11122	2.0
1 oner alsoipation per pole (average value)	Ith	W	2.6
	AC-3	W	1.6
Tightening torque for terminals	70-3	V V	1.0
rightening torque for terminals	min	Nm	1.5
	max	Nm	1.8
	min	lbin	1.0
		lbin	1.5
Tightening torque for coil terminal	max	וווטו	1.0
rightening torque for contentinal	min	Nlm	Λ 8
	min	Nm Nm	0.8
	max	Nm Ibin	1
	min	lbin	0.8





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		max	lbin	0.74
	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
		max		10
	Flexible w/o lug conductor section	_		
		min	mm²	1
	=	max	mm²	6
	Flexible c/w lug conductor section		2	
		min	mm²	1
	Florible with insulated and deliver and distance time	max	mm²	4
	Flexible with insulated spade lug conductor section		· · 2	4
		min	mm²	1
		max	mm²	4 IP20 when
Power terminal prote	ction according to IEC/EN 60529			properly wired
Mechanical features				property wired
Operating position				
- 1- 2. a.m. 19 P 20111011		normal		Vertical plan
		allowable		±30°
				Screw / DIN rail
Fixing				35mm
Weight			g	360
Conductor section				
	AWG/kcmil conductor section			
		max		10
Auxiliary contact char	acteristics			
Thermal current Ith			Α	10
IEC/EN 60947-5-1 de	esignation			A600 - P600
Operating current AC	15			
		230V	Α	3
		400V	Α	1.9
		500V	Α	1.4
Operating current DC	:12			
		110V	Α	5.7
Operating current DC	:13			
		24V	Α	5.7
			Λ.	2.9
		48V	Α	
		60V	Α	2.3
		60V 110V	A A	2.3 1.25
		60V 110V 125V	A A A	2.3 1.25 1.1
		60V 110V 125V 220V	A A A	2.3 1.25 1.1 0.55
Operations		60V 110V 125V	A A A	2.3 1.25 1.1
		60V 110V 125V 220V	A A A A	2.3 1.25 1.1 0.55 0.2
Mechanical life		60V 110V 125V 220V	A A A A A	2.3 1.25 1.1 0.55 0.2
Mechanical life Electrical life		60V 110V 125V 220V	A A A A	2.3 1.25 1.1 0.55 0.2
Mechanical life Electrical life Safety related data	Indicense to ENUSO 42420 4	60V 110V 125V 220V	A A A A A	2.3 1.25 1.1 0.55 0.2
Mechanical life Electrical life Safety related data	10d according to EN/ISO 13489-1	60V 110V 125V 220V 600V	A A A A Cycles	2.3 1.25 1.1 0.55 0.2 20000000 1200000
Mechanical life Electrical life Safety related data		60V 110V 125V 220V 600V	A A A A A Cycles cycles	2.3 1.25 1.1 0.55 0.2 20000000 1200000
Mechanical life Electrical life Safety related data Performance level B	med	60V 110V 125V 220V 600V	A A A A Cycles	2.3 1.25 1.1 0.55 0.2 20000000 1200000 1200000 20000000
		60V 110V 125V 220V 600V	A A A A A Cycles cycles	2.3 1.25 1.1 0.55 0.2 20000000 1200000





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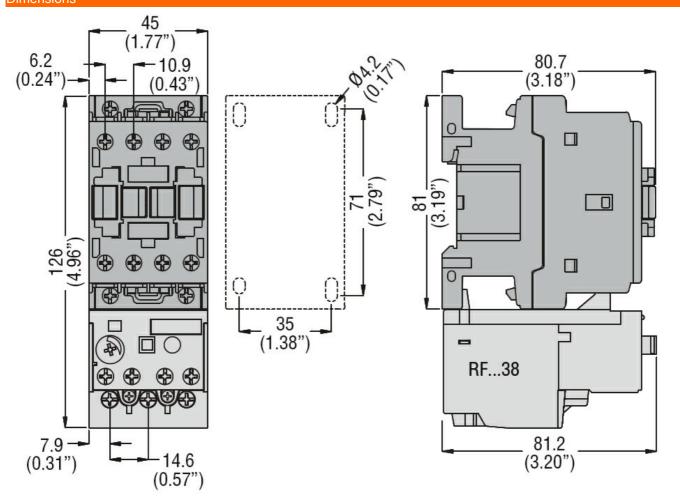
Rated AC voltage at 60Hz		V	460
AC operating voltage			
of 60Hz coil powered at 60Hz			
pick-up			
	min	%Us	80
	max	%Us	110
drop-out			
	min	%Us	20
	max	%Us	55
AC average coil consumption at 20°C			
of 60Hz coil powered at 60Hz			
	in-rush	VA	75
	holding	VA	9
Dissipation at holding ≤20°C 50Hz		W	2.5
Max cycles frequency			
Mechanical operation		cycles/h	3600
Operating times			
Average time for Us control			
in AC			
Closing NO			
·	min	ms	8
	max	ms	24
Opening NO			
, <u> </u>	min	ms	10
	max	ms	20
Closing NC			
•	min	ms	14
	max	ms	28
Opening NC			
	min	ms	7
	max	ms	18
UL technical data			
Full-load current (FLA) for three-phase AC motor			
	at 480V	Α	21
	at 600V	Α	17
Yielded mechanical performance			
for single-phase AC motor			
	110/120V	HP	2
	230V	HP	3
for three-phase AC motor			
·	200/208V	HP	7.5
	220/230V	HP	7.5
	460/480V	HP	15
	575/600V	HP	15
General USE			
Contactor			
	AC current	Α	32
Auxiliary contacts	·		
,	AC voltage	V	600
	AC current	A	10
	DC voltage	V	250
	DC current	A	1
Short-circuit protection fuse, 600V			
High fault			





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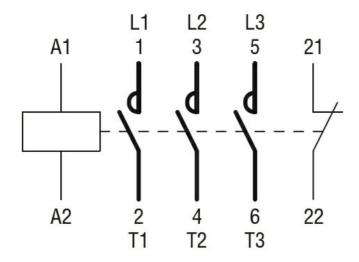
		Short circuit current	kA	100
		Fuse rating	Α	60
		Fuse class		J
Standa	rd fault			
		Short circuit current	kA	5
		Fuse rating	Α	100
Contact rating of auxiliary contact	cts according to UL			A600 - P600
Ambient conditions				
Temperature				
Operati	ng temperature			
		min	°C	-50
		max	°C	70
Storage	e temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Protection				
Pollution degree				3
Dimensions				



Wiring diagrams

ENERGY AND AUTOMATION

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Certifications and compliance

Compliance

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1

IEC/EN/BS 60947-1

IEC/EN/BS 60947-4-1

UL 60947-1

UL 60947-4-1

Certificates

CCC

cULus

EAC

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching